
APPENDIX C

**SCADA Inventory and Operational
Issues (SBMWD)**

SBMWD Muscoy OU SCADA RTU INVENTORY:

**Muscoy
Extraction and Monitoring Wells**

	CPU	I/O CARD	RADIO	ANTENNA MAST	CABINET	POWER SUPPLY	SOLAR PANEL	BATTERY CHARGER	ANTENNA	INSTRUMENTATION	SCADA RTU STATUS	COMMENTS
EW108	CP-11	DI-5 IO-3 IO-3	Teledesign 9600	Light Pole	A-723624FS	PS-11	N/A	N/A	UHF 3db Omni Style	Piezometer A Piezometer B Flow meter Pressure Meter	OK	
EW109	CP-11	DI-5 IO-3 AI-10	Teledesign 9600	Light Pole	A-723618FS	PS-11	N/A	N/A	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C Flow meter Pressure Meter	OK	
EW110	CP-11	DI-5 IO-3 AI-10	Teledesign 9600	Light Pole	A-723618FS	PS-11	N/A	N/A	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C Piezometer D Piezometer E Flow meter Pressure Meter	OK	
EW111	CP-11	DI-5 IO-3 AI-10	Teledesign 9600	Light Pole	A-723618FS	PS-11	N/A	N/A	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C Piezometer D Flow meter Pressure Meter	OK	
EW112	CP-11	DI-5 IO-3	Teledesign 9600	Light Pole	A-723618FS	PS-11	N/A	N/A	UHF 3db Omni Style	Piezometer A Piezometer B Flow meter Pressure Meter	OK	
MW128	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling
MW129	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling
MW130	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling
MW135	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling
MW136	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling
MW137	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling
MW138	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling
MW139	PC-1	IO-3	Teledesign 4000	Galvanized Steel Pipe, 2" x 21"	A-602418FS	External Battery	48"x20"	Sunsaver6	UHF 3db Omni Style	Piezometer A Piezometer B Piezometer C	OK	Intermittent lost of radio communication to SCADA, being addressed with SBMWD's SCADA Radio Improvement Project RTU wiring needs labeling

SBMWD Water Utility SCADA Operational Status Issues

<u>Priority</u>	<u>Description</u>	<u>Reported Date</u>	<u>Reported By</u>	<u>Problem Resolution</u>	<u>Date Resolved</u>	<u>Resolved By</u>
1	Muscoy Sites SCADA Communications improvement project.	12-Oct-05	Dave Solomona	This project is in progress. Current completed activities are Fiber Optic and Ridgeline cabinet installed. Radio installed at City Hall, Ridgeline and MW10 on 12/14/05.		
1	No SCADA communications with MW16	3-Oct-05	Dave Solomona	Replaced a faulty radio, S/N 17340. Sent faulty radio to Teledesign for repair. New radio recd. S/N 26634, 10/27/05	5-Oct-05	Dave Solomona
1	Label all wiring for Muscoy and Newmark monitoring wells	5-Oct-05	Dave Solomona	In progress, about 65 % complete on 12/14/05.		
1	Add reference level and transducer depth to Muscoy and Newmark MW/EW RTU water logs	1-Sep-05	SECOR	Program RTU with ladder logic to include both Ref Elev and Transducer depth in the Water Logging routine.	28-Oct-05	Dave Solomona
1	No communications with MW10	27-Oct-05	Dave Solomona	Defective TeleDesign 4000 Series radio	27-Oct-05	Dave Solomona
1	No communications from the new 19th St Plant	3-Nov-05	Mike Lowe	Replaced CP-11 cards each side, cable and added RS232C isolators	5-Dec-05	Dave Solomona
1	EPA 1 not controlled by Electric Reservoir	8-Nov-05	Mike Garland	Modify ladder at Electric to include EPA 1 for level control	10-Nov-05	Dave Solomona
1	TOU setpoints at 19th St plant are not functioning properly	10-Nov-05	Mike Garland	Modify ladder to enable TOU setpoints to control boosters	14-Nov-05	Dave Solomona
1	EPA 108, 109, 110, 111 and 112 TOU setpoints are not functioning properly	8-Nov-05	Dave Solomona	Modify ladder to include EPA 108,109,110,111 and 112 in Electric Resv level controls	10-Nov-05	Dave Solomona
1	EPA 1 has no communications to the Front End	21-Nov-05	M.Garland	Replaced a defective radio	21-Nov-05	Dave Solomona
1	19th St Plant booster 4 and 5 are cycling, poor communications	1-Dec-05	M.Garland	Modify ladder to latch the start relay and filter any noise on the FIT-02 which controls the on/off of the pumps. Replaced a bad radio.	1-Dec-05	Dave Solomona
1	19th St Plant new vessel #5 and #6, no flow reading both local and SCADA	5-Dec-05	URS	Replaced fuses at the RTU. URS informed.	9-Dec-05	Dave Solomona
1	19th St Plant Booster 3,4 and 5 flow meters at SCADA are not correct	14-Dec-05	M.Lowe	Work in progress by SBMWD		

Priorities:
 1 = Mission Critical - Immediate Resolution Required;
 2 = Compromised Operational Functionality;
 3 = Non Compromising Issue

8/22/2006 8:00 AM